



APEX GLOBAL TRADING LTD.

info@apexglobal.trade
sales@apexglobal.trade
<https://apexglobal.trade/>

Technical Data Sheet

MONOETHYLENE GLYCOL

1,2-ethanediol; Ethylene glycol (MEG)

CAS Number: **107-21-1**

Formula: C₂H₆O₂

DESCRIPTION:

Monoethylene glycol is a clear, colorless and hygroscopic liquid, with moderately viscous. It is completely miscible with water and many organic liquids.

APPLICATION:

Monoethylene glycol (MEG) is most commonly used as chemical intermediate in the manufacture of polyester resins and textile fibers. MEG is also widely used as automotive antifreeze due to its low freezing point when mixed with water and used as heat transfer fluids for ventilation and air-conditioning systems.

PHYSICAL PROPERTIES:

Form	liquid
Appearance	Clear
Molecular Weight	62.07
pH	7
Boiling Point, 760 mm Hg, °C	198
Flash Point, PMCC, °C	111
Freezing Point, °C	-12
Specific Gravity, 20/20°C	1.1154
Conductivity, µS/cm	0.57
Refractive Index, 20°C	1.4321
Vapor Pressure, mm Hg, 20°C	0.08
Viscosity, cSt, 40°C	8.712
Sodium as Na, ppm	<0.1
Potassium as K, ppm	<0.1
Sulfate as SO ₄ ²⁻ , ppm	<1

REGULATORY INFORMATION:

IMDG Classification	Non-Dangerous Goods
HMIS Code	2-1-0
HS Code	2905.31.00



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HANDLING AND STORAGE:

Keep the material in the anhydrous state to prevent severe corrosion to the carbon steel or aluminum tank and related equipment. For longer term color stability, it is recommended that the product be stored under an inert atmosphere.

Monoethylene glycol products have 24 months of shelf-life time under unopened drum. The product should be re-evaluated after 24 months to reconfirm the product quality, if properly stored and protected from contamination. For bulk container, the shelf-life time of product is 6 months from manufacturing date.

For storage conditions, product is hygroscopic, water contamination should be avoided. Keep container tightly closed without air contamination. Due to Monoethylene glycol is very sensitive with moisture, an elevated moisture level when do re-sampling might be faced. The periods of exposure to high temperatures should be minimized. Avoid directly contact with sunlight and higher temperature. Monoethylene glycol is recommended to be stored under an inert atmosphere such as nitrogen blanket to sustain product stability.

PACKAGING:

Product is available in bulk truck, ISO Tank, flexi bag, IBC tank, steel drum with epoxy phenolic coating. Recommended containers are stainless steel and aluminum or carbon steel with suitably lined. IBC tank material should be HDPE with UV stabilized and opaque to prevent UV degradation. Certain government regulations may apply at the time of shipment and delivery.

SAFETY:

Wear appropriate personal protective equipment, including appropriate respiratory protection. Avoid contact with skin, eyes or clothing. For information on the toxicity and handling of this product, please find in the Material Safety Data Sheet.